

REMARKS

This Amendment is in response to the Office Action mailed April 09, 2002. Applicant elects group I (claims 1-8 and 21-24), cancels claims 9-20 and 24 without prejudice and adds new claims 25-34. Applicant respectfully requests examination of pending claims 1-8 and 21-23 and 25-34 at the Examiner's earliest convenience.

VERSION WITH MARKINGS TO SHOW CHANGES MADE

1 1. (Amended) A method for improving receive performance in a data network,
2 the method comprising:
3 receiving up to a plurality of indications denoting the start of frame transmission on a
4 corresponding plurality of communication links;
5 identifying that at least one of the received indications denote the start of a flow; and
6 dedicating a receive buffer from a plurality of receive buffers to receive all frames
7 associated with the identified flow.

1 2. (Amended) The method of claim 1, wherein identifying the start of flow
2 includes analyzing information embedded within each of the received frames to determine
3 source and destination information associated with said frames.

1 3. (Amended) The method of claim 1, further comprising determining whether
2 the identified flow requires preservation of transmission order.

1 4. The method of claim 3, further comprising promoting frames of the received
2 flow in the order received, unless it is determined flow requires preservation of frame order.

1 5. The method of claim 4, further comprising assigning a pointer value to each
2 frame of the identified flow corresponding to commencement of transmission, creating a list
3 of pointer values corresponding to transmission order if it is determined that the identified
4 flow requires preservation of transmission order.

1 6. The method of claim 1, further comprising promoting the received frames
2 from the dedicated buffer in the order received, without regard to frame transmission order,
3 unless it is determined that the identified flow requires preservation of transmission order.

1 7. The method of claim 6, further comprising determining whether the identified
2 flow requires preservation of transmission order by analyzing protocol identification
3 information embedded within the received frames.

1 8. The method of claim 1, wherein the buffer order does not correspond to the
2 order of frame transmission.

1 9. *(Cancelled)*

1 10. *(Cancelled)*

1 11. *(Cancelled)*

1 12. *(Cancelled)*

1 13. *(Cancelled)*

1 14. *(Cancelled)*

1 15. *(Cancelled)*

1 16. *(Cancelled)*

1 17. *(Cancelled)*

1 18. *(Cancelled)*

1 19. *(Cancelled)*

1 20. *(Cancelled)*

1 21. A medium having embodied thereon a program for processing by a network
2 device, the program comprising:

3 a module to receive an indication to denote commencement of a flow of frame
4 transmissions; and

5 a module to indicate at least one receive buffer to receive all frames associated with
6 the flow.

1 22. The medium of claim 21, wherein the program further comprises a module to
2 promote frames of the received flow in the order received, unless it is determined flow
3 requires preservation of frame order.

1 23. The medium of claim 21, wherein the program further comprises a module to
2 assign a pointer value to each frame of the identified flow corresponding to commencement
3 of transmission, creating a list of pointer values corresponding to transmission order if it is
4 determined that the identified flow requires preservation of transmission order.

1 24. *(Cancelled)*

1 25. (New) Adapted for a data network including a plurality of communication
2 links, a method comprising:
3 receiving at least one indication denoting a start of frame transmission on the
4 corresponding plurality of communication links;
5 identifying a received indication denotes commencement of a flow;
6 dedicating a buffer from a plurality of buffers to receive all frames associated with the
7 identified flow;
8 determining whether the identified flow requires preservation of frame transmission
9 order; and
10 relying on the received indications associated with each frame to preserve a state of
11 frame order transmission.

1 26. (New) The method of claim 25, wherein identifying the start of flow includes
2 analyzing information embedded within each of the received frames to determine source and
3 destination information associated with said frames.

1 27. (New) The method of claim 25 wherein the relying on the received
2 indications comprises promoting frames of the received flow in the order received, unless it
3 is determined flow requires preservation of frame transmission order.

1 28. (New) The method of claim 25 wherein the relying on the received
2 indications comprises assigning a pointer value to each frame of the identified flow

3 corresponding to commencement of transmission, creating a list of pointer values
4 corresponding to transmission order if it is determined that the identified flow requires
5 preservation of frame transmission order.

1 29. (New) The method of claim 28, further comprising promoting the received
2 frames from the dedicated buffer in the order received, without regard to frame transmission
3 order, unless it is determined that the identified flow requires preservation of frame
4 transmission order.

1 30. (New) The method of claim 25, further comprising determining whether the
2 identified flow requires preservation of frame transmission order by analyzing protocol
3 identification information embedded within the received frames.

1 31. (New) The method of claim 25, wherein the buffer order does not correspond
2 to the order of frame transmission.

1 32. (New) A network device comprising:
2 means for receiving an indication to denote commencement of a flow of frame
3 transmissions; and
4 means for indicating at least one receive buffer to receive all frames associated with
5 the flow.

1 33. (New) The network device of claim 32, further comprising a means for
2 promoting frames of the received flow in the order received, unless it is determined flow
3 requires preservation of frame order.

1 34. (New) The network device of claim 32, further comprising means for assigning a
2 pointer value to each frame of the identified flow corresponding to commencement of
3 transmission, and creating a list of pointer values corresponding to transmission order if it is
4 determined that the identified flow requires preservation of transmission order.

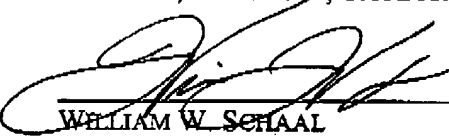
CONCLUSION

In view of the amendments and remarks made above, it is respectfully submitted that all pending claims are in condition for allowance, and such action is respectfully solicited.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

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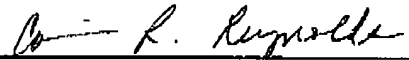


WILLIAM W. SCHAAL
Reg. No. 39,018

12400 Wilshire Boulevard, Seventh Floor
Los Angeles, California 90025
(714) 557-3800

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Corrin R. Reynolds
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